## EAST Search History

| Ref# | Hits | Search Query  | DBs                | Default<br>Operator | Plurals | Time Stamp          |
|------|------|---|--------------------|---------------------|---------|---------------------|
| L2   | 21   | tran-danh\$.in.   | US-PGPUB;<br>USPAT | OR                  | ON      | 2008/05/20<br>17:59 |
| S15  | 137  | 501/44.ccls.  | US-PGPUB;<br>USPAT | OR                  | ON      | 2008/05/19<br>19:02 |
| S16  | 48   | 501/44.ccls. and<br>(AIF3 or "AIF.<br>sub.3" or "AI F.<br>sub.3")   | US-PGPUB;<br>USPAT | OR                  | ON      | 2008/05/19<br>19:02 |
| SI7  | 32   | 501/44.ccls. and (AIF3 or "AIF. sub.3") and ((MGP2 or "MGF. sub.2") and ((MGP2 or "MGF. sub.2") or (CaF2 or "CaF. sub.2") or (CaF2 or "SF. sub.2") or (CaF2 or "SF. sub.2") or (BaF2 or "BaF. sub.2") or (BaF2 or "BaF. sub.2") and ((LIF or NaF or CsF) and ((ZrO2 or "ZrO. sub.2") or ZrO2 or ""ZrO. sub.2" or ZrO2 or ""TiO. sub.2" or ZrO2 or ""CaF2 or ""CaF2 or ZrO2 or ""CaF2 or | US-PGPUB;<br>USPAT | OR                  | ON      | 2008/05/19 19:03    |

|     |    | sub.3" or Al203 or "Al.sub.2 0. sub.3" or "Al. sub.2 0. sub.3" or "Al. sub.20. sub.3" or aluminum) or (Ga2O3 or "Ga. sub.2" "O. sub.3"" or Ga2O3 or "Ga. sub.20. sub.3" or Ga203 or "Ga. sub.20. sub.3" or Ga203 or "Ga. sub.20. sub.3" or Ga103 or "Ga. sub.20. sub.3" or Ga103 or "Ga. sub.20. sub.2" or Silica or Ga203 or "Ta. sub.2 O. sub.5" or "Ta. sub.2 O. sub.5" or "Ta. sub.2 O. sub.5" or "Ta. sub.2 or Sub.2" or Hof02 or "Hof02 or "Hof02 or "Hof02 or "Hof02" or Hof02 or "Hof03 or Hof014 or Hof03 or Hof014 or Hof0 |                    |    |    |            |
|-----|----|--|--------------------|----|----|------------|
| S18 | 15 | (oxyfluoride same glass) and (AJF3 or "AJF. sub.3" or "AJ F. sub.3") and ((MgF2 or "MgF. sub.2") or (CaF2 or "CaF.sub.2") or (CaF2 or "SF. sub.2") or (BaF2 or "BaF.sub.2") or "Ba F.sub.2") or "Ba F.sub.2" or "Fa F. sub.2") and ((JF or NaF or KF or CSF) and ((ZrO2 or   | US-PGPUB;<br>USPAT | OR | ON | 2008/05/19 |

""ZrO.sub.2"" or Zr02 or ""Zr0. sub.2"" or zirconium or zirconia) or (TiO2 or "TiO. sub.2" or Ti02 or "Ti0.sub.2" or titania or titanium) or (GeO2 or ""GeO. sub.2"" or Ge02 or ""Ge0. sub.2"or" germanium or germania) or (Al2O3 or "Al. sub.2 O.sub.3" or "Al.sub.2O. sub.3" or Al203 or "Al.sub.2 0. sub.3" or "Al. sub.20.sub.3" or alumina or aluminum) or (Ga2O3 or ""Ga. sub.2" "O. sub.3"" or ""Ga. sub 20 sub 3"" or Ga203 or "Ga. sub.2 0.sub.3" or "Ga.sub.20. sub.3" or gallium or gallia) or (SO2 or "SO. sub.2" or Si02 or "Si0.sub.2" or silica or silicon or quartz) or (Ta2O5 or "Ta. sub 2 O sub 5" or "Ta.sub.2O. sub.5" or Ta205 or "Ta.sub.2 0. sub.5" or "Ta. sub.20.sub.5" or tantalum) or (HfO2 or ""HfO. sub.2"" or Hf02 or ""Hf0.sub.2"" or Hafnium or

|     |     | hafnia))   | <u></u>            |    |    |                     |
|-----|-----|--|--------------------|----|----|---------------------|
| S19 | 9   | ("4445755"<br>"4761387"<br>"5045507"<br>"5055120"<br>"5160521"<br>"5274728"<br>"5322820"<br>"5796903"<br>"5809199").pn.  | US-PGPUB;<br>USPAT | OR |    | 2008/05/19<br>19:03 |
| 320 | 231 | 501/40.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/05/19<br>19:05 |
| S21 | 53  | 501/40.ccls. and<br>(AIF3 or "AIF.<br>sub.3" or "AI F.<br>sub.3")  | US-PGPUB;<br>USPAT | OR | ON | 2008/05/19<br>19:05 |
| ₩2  | 39  | 501/40.cds. and (AIF3 or "AIF. sub.3" or "AIF. sub.3" or "AIF. sub.3") and ((IMGF2 or "MgF. sub.2") or (CaF2 or "SF. sub.2" or "GF. sub.2" or "GF. sub.2" or "Ba F. sub.2" or "Ba F. sub.2") and (IJF or NaF or CSF) and (IJF or NaF or CSF) and (IJF or NaF or IJF o | US-PGPUB;<br>USPAT | OR | ON | 2008/05/19          |

|     |   | sub. 2 O. sub. 3" or "Al. sub. 2O. sub. 3" or Al203 or "Al. sub. 2O. sub. 3" or "Al. sub. 2O. sub. 3" or alumina or alumina or aluminam or (Ga2O3 or "Ga. sub. 2" or "Ga. sub. 2" or "Ga. sub. 2" or "Ga. sub. 20. sub. 3" or "Ga. sub. 20. sub. 3" or "Ga. sub. 20. sub. 3" or "Ga. sub. 20. sub. 5" or "Ga. sub. 20. sub. 5" or "Ga. sub. 20. sub. 5" or Ta. sub. 2O. sub. 5 |                      |    |    |                  |
|-----|---|--|----------------------|----|----|------------------|
| 833 | 0 | (oxyfluoride same glass) and (AlF3 or "AlF. sub.3" or "Al F. sub.3" or "Mg F. sub.2" or "Mg F. sub.2" or "CaF2 or "CaF. sub.2") or (SF2 or "SF sub.2") or (BaF2 or "Ba F.sub.2") or (BaF.sub.2" or "Ba F.sub.2") and (LiF or NaF   | EPO; JPO;<br>DERWENT | OR | ON | 2008/05/19 22:41 |

| or KF or CsF)        |
|----------------------|
| and ((ZrO2 or        |
| ""ZrO.sub.2"" or     |
| Zr02 or ""Zr0.       |
| sub.2"" or           |
|                      |
| zirconium or         |
| zirconia) or         |
| (TiO2 or "TiO.       |
| sub.2" or Ti02 or    |
| "Ti0.sub.2" or       |
| titania or           |
| titanium) or         |
| (GeO2 or ""GeO.      |
| sub.2"" or Ge02      |
| or ""Ge0.            |
| sub.2"or"            |
| germanium or         |
|                      |
| germania) or         |
| (Al2O3 or "Al.       |
| sub.2 O.sub.3"       |
| or "Al.sub.2O.       |
| sub.3" or Al203      |
| or "Al.sub.2 0.      |
| sub.3" or "Al.       |
| sub.20.sub.3" or     |
| alumina or           |
| aluminum) or         |
| (Ga2O3 or ""Ga.      |
| sub.2" "O.           |
| sub.3"" or ""Ga.     |
|                      |
| sub.2O.sub.3""       |
| or Ga203 or "Ga.     |
| sub.2 0.sub.3" or    |
| "Ga.sub.20.          |
| sub.3" or gallium    |
| or gallia) or        |
| (SiO2 or "SiO.       |
| sub.2" or Si02 or    |
| "Si0.sub.2" or       |
| silica or silicon or |
| quartz) or           |
| (Ta2O5 or "Ta.       |
| sub.2 O.sub.5"       |
|                      |
| or "Ta.sub.2O.       |
| sub.5" or Ta205      |
| or "Ta.sub.2 0.      |
| sub.5" or "Ta.       |
| sub.20.sub.5" or     |
| tantalum) or         |
| (HfO2 or ""HfO.      |
| sub.2"" or Hf02      |
|                      |

|     |   | or ""Hf0.sub.2""<br>or Hafnium or<br>hafnia))   | *************************************** | *************************************** |    |                  |
|-----|---|---|---|---|----|------------------|
| 324 | 0 | (oxyfluoride same glass) and (AIR3 or "AIF. sub.3" or "AI F. sub.3" or "AI F. sub.3" or "NgF. sub.2" or (CaF2 or "NgF. sub.2" or (CaF2 or "SF sub.2") or (SF2 or "SF sub.2") or (BaF3 or "BaF. sub.2") or (BaF3 or "BaF. sub.2") or "BaF. sub.2") or "CaF3 or "TO.3 or "AI. sub.2" or captain or GeO2 or "GeO.3 sub.2" or GeO2 or "GeO.3 sub.3" or "AI. sub.2 O.3 sub.3" or GaO3 or "Ga.3 sub.2" or GeO3 sub.3" or GaO3 or "Ga.3 sub.2 O.3 sub.3" or "Ga.3 sub.3 | EPO; JPO;<br>DERWENT                    | OR                                      | ON | 2008/05/19 22:43 |

|     |    | sub. 20. sub. 3" or gallium or gallia) or (SIO2 or "SIO. sub. 2" or SIO2 or "SIO. sub. 2" or SIO2 or "SIO. sub. 2" or SIICa or silicon or quartz) or (Ta2O5 or "Ta. sub. 2 O. sub. 5" or "Ta. sub. 2 O. sub. 5" or "Ta. sub. 2 O. sub. 5" or tantalum) or tantalum) or (HIO2 or "HIO. sub. 2" or HIO. sub. 2" or HIO. sub. 2" or HIO. sub. 2" or HIO. sub. 2" or Hafniam or hafnia))   |                      |    |    |                     |
|-----|----|--|----------------------|----|----|---------------------|
| 825 | 23 | (optical adj glass) and (AIF3 or "AIF.sub.3" or "AIF.sub.3") and ((MgF2 or "MgF.sub.2") or (CaF2 or "CaF.sub.2" or "Ca F.sub.2") or (SF2 or "SF. sub.2") or (BaF2 or "BaF.sub.2") and (LIF or NaF or KF or CsF) and (LIF or NaF or KF or CsF) and (CIZO2 or "ZrO.sub.2" or ZrO2 or "ZrO.sub.2" or TiO.sub.2" or titanium or titanium) or (GeO2 or "GeO.sub.2" or GeO2 or "GeO.sub.2" or GeO2 or "GeO.sub.2" or GeO2 or "GeO.sub.2" or germanium or | EPO; JPO;<br>DERWENT | OR | ON | 2008/05/19<br>22:43 |

| germania) or         |  |  |   |
|----------------------|--|--|---|
| (Al2O3 or "Al.       |  |  |   |
| sub.2 O.sub.3"       |  |  |   |
| or "Al.sub.2O.       |  |  |   |
| sub.3" or Al203      |  |  |   |
| or "Al.sub.2 0.      |  |  |   |
| sub.3" or "Al.       |  |  |   |
| sub.20.sub.3" or     |  |  |   |
| alumina or           |  |  |   |
| aluminum) or         |  |  |   |
| (Ga2O3 or "Ga.       |  |  | 9                                       |
| sub.2 O.sub.3"       |  |  | ***                                     |
| or "Ga.sub.2O.       |  |  | -                                       |
| sub.3" or Ga203      |  |  |   |
| or "Ga.sub.2 0.      |  |  | -                                       |
| sub.3" or "Ga.       |  |  | *                                       |
| sub.20.sub.3" or     |  |  | -                                       |
| gallium or gallia)   |  |  |   |
| or (SiO2 or "SiO.    |  |  | ***                                     |
| sub.2" or Si02 or    |  |  | -                                       |
|                      |  |  | -                                       |
| "Si0.sub.2" or       |  |  | -                                       |
| silica or silicon or |  |  | *                                       |
| quartz) or           |  |  | *************************************** |
| (Ta2O5 or "Ta.       |  |  | -                                       |
| sub.2 O.sub.5"       |  |  | 200                                     |
| or "Ta.sub.2O.       |  |  | ***                                     |
| sub.5" or Ta205      |  |  | *                                       |
| or "Ta.sub.2 0.      |  |  |   |
| sub.5" or "Ta.       |  |  | -                                       |
| sub.20.sub.5" or     |  |  | -                                       |
| tantalum) or         |  |  |   |
| (HfO2 or "HfO.       |  |  |   |
| sub.2" or Hf02       |  |  |   |
| or "Hf0.sub.2" or    |  |  |   |
| Hafnium or           |  |  |   |
| hafnia))             |  |  |   |

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